Water quality affects you everyday

The Nevada Division of Environmental Protection takes a proactive approach to education and outreach. Presentations focus on key areas of water resource concerns:

· Community Wellhead Protection
· Groundwater
· Surface Water
· Nonpoint Source Pollution
· Stormwater Runoff
· Wetlands

These interactive classroom presentations feature an introduction to the hydrologic cycle and water pollution prevention using colorful handouts, posters, and surface water and groundwater models.

Water-resource science addresses present and future water resource management, and introduces students to careers in science and engineering.
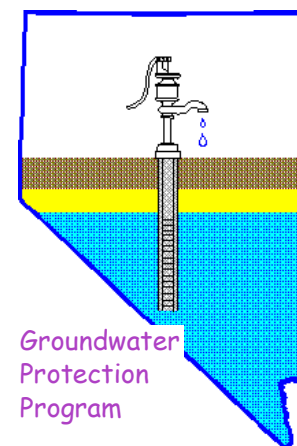
Students learn how pollutants enter our waterways, how to prevent environmental pollution, and how to become involved in watershed activities.

Nevada Division of Environmental Protection
Bureau of Water Quality Planning
333 W. Nye Lane, Suite 138
Carson City, Nevada 89706-0851

For additional information and scheduling call NV Division of Environmental Protection
 Nonpoint Source Program
  Mary Kay Riedl (775) 687-9454 or
 Groundwater Protection Program
  Nevan Kane (775) 687-9426

Water Science Presentations for Nevada Schools

Nonpoint Source Management Program

Groundwater Protection Program

Nevada Division of Environmental Protection and the
US Environmental Protection Agency

Preventing Pollution is Less Expensive Than Cleaning It Up!

Public education and awareness are critical tools for achieving the changes in behavior necessary for preventing pollution and improving water quality.

The Nevada Division of Environmental Protection brings water science programs to the classroom to promote both surface and ground water pollution prevention.

Presentations can be community specific and tailored to fit the current science curriculum objectives for grades 3-8.

Copies of lesson plans for teachers to use can be made available. Water science vocabulary words are provided in advance for students to learn.

WEB SITES OF INTEREST:

Teaching Water Science

http://www.globe.gov

http://www.hach.com/h2ou/index.htm

http://www.usgs.gov/education

Surface Water Model Demonstrations

Nonpoint Source (NPS) Pollution refers to runoff from diffuse urban, agricultural, residential and industrial sources and is considered to be the leading cause of water quality degradation in Nevada. Rainfall, snowmelt and irrigation water carry NPS pollutants, such as nutrients, salts, motor oil, pesticides and sediments to surface and ground water systems. Point source pollution refers to a discharge from a discrete source such as a wastewater treatment plant.

A three dimensional surface water model is used to illustrate the principals of:
♦ The hydrologic cycle
♦ The watershed concept
♦ Point and nonpoint source pollution sources
♦ Pollution prevention

Ground Water Model Demonstrations

Ground water is an important resource in Nevada. Ninety percent of Nevada's public drinking water systems rely exclusively on ground water. Ground water is recharged by and connected to rivers, streams and lakes. The pollutants that threaten our surface waters also threaten ground water. An understanding of ground water recharge, flow, and retrieval help us protect it from contamination.

A three dimensional sand box ground water model is used to illustrate the principals of:
♦ The hydrologic cycle
♦ Ground water recharge
♦ Ground water flow
♦ Sources of ground water pollution
♦ Pollution prevention